

What is claimed is:

1. A motor for an electric power steering apparatus comprising:
  - a bottomed cylindrical frame;
  - a bracket disposed at an opening portion of said frame;
  - a rotor having a shaft rotatably disposed on a central axis of said frame;
  - a stator fixedly attached to said frame around an outer periphery of said rotor and having a stator winding wound thereon;
  - stator-side terminals disposed between said stator and said bracket and each having a connection portion extending toward said bracket, said stator-side terminals being connected with said stator winding;
  - a connector base including connection terminals connected with tip ends of said connection portions, a base portion with said connection terminals being disposed on a surface thereof, and female threaded portions mounted on said base portion;
  - leads having, at their one end, lead-side terminals, respectively, which are placed in contact with said connection terminals for introducing electric current from outside to said stator winding; and
  - male threaded members threaded on said female threaded portions, respectively, for coupling said connection terminals and said lead-side terminals with each other.
2. The motor for an electric power steering apparatus as set forth in claim 1, wherein said connector base, said connection terminals and said female threaded portions are integrally formed with said base portion by means of insert molding.
3. The motor for an electric power steering apparatus as set forth in claim 1, wherein said base portion is formed with receiving portions for receiving therein said female threaded portions, respectively.

4. The motor for an electric power steering apparatus as set forth in claim 3, wherein each of said receiving portions has an inner diameter greater than an outer diameter of a corresponding one of said female threaded portions with a clearance being formed between an inner wall of each of said receiving portions and an outer wall of the corresponding one of said female threaded portions.
5. The motor for an electric power steering apparatus as set forth in claim 1, wherein said connector base is constructed such that each of said connection terminals has a burred surface which is subjected to a female threading process whereby each connection terminal and a corresponding female threaded portion are formed by a single member.
6. The motor for an electric power steering apparatus as set forth in claim 1, wherein a rib is provided between adjacent ones of said connection terminals for guiding said lead-side terminals onto said connection terminals.
7. The motor for an electric power steering apparatus as set forth in claim 1, wherein said bracket has a work hole formed at a location opposing said male threaded members for enabling the turning operation of said male threaded members from the outside of said bracket.
8. A motor for an electric power steering apparatus comprising:
  - a bottomed cylindrical frame;
  - a bracket disposed at an opening portion of said frame;
  - a rotor having a shaft rotatably disposed on a central axis of said frame;
  - a stator fixedly attached to said frame around an outer periphery of said rotor and having a stator winding wound thereon;
  - stator-side terminals disposed between said stator and said bracket and each having a connection portion extending toward said bracket, said stator-side terminals being connected with said stator winding;
  - male threaded members each having a head with which a tip end of a

corresponding one of said connection portions is connected; leads having, at their one end, lead-side terminals, respectively, which are electrically connected with said male threaded members for introducing electric current from outside to said stator winding; and female threaded members threaded on said male threaded members, respectively, to cooperate with their heads to clamp said lead-side terminals therebetween.

9. The motor for an electric power steering apparatus as set forth in claim 8, wherein each of said heads of said male threaded members has a polygonal shape in plan, with a detent member being disposed around said heads for inhibiting the rotation of said male threaded members.

10. The motor for an electric power steering apparatus as set forth in claim 8, wherein said bracket has a work hole formed at a location opposing said female threaded members for enabling the turning operation of said female threaded members from the outside of said bracket.

11. A motor for an electric power steering apparatus comprising:  
a bottomed cylindrical frame;  
a bracket disposed at an opening portion of said frame;  
a rotor having a shaft rotatably disposed on a central axis of said frame;  
a stator fixedly attached to said frame around an outer periphery of said rotor and having a stator winding wound thereon;  
stator-side terminals disposed between said stator and said bracket and each having a connection portion extending toward said bracket, said stator-side terminals being connected with said stator winding;  
leads having, at their one end, lead-side terminals, respectively, extending toward an outer side of said bracket while being overlapped with said connection portions from their intermediate portion to their tip end for introducing electric current from outside to said stator winding;

male threaded members extending through said lead-side terminals and said connection portions, respectively; and

female threaded members threaded on said male threaded members, respectively, to cooperate therewith to couple said lead-side terminals and said connection portions with each other.

12. The motor for an electric power steering apparatus as set forth in claim 11, wherein each of said connection portions and said lead-side terminals has its one end extending up to the outer side of said bracket, and said connection portions and said lead-side terminals are coupled with each other at a location outside of the bracket.